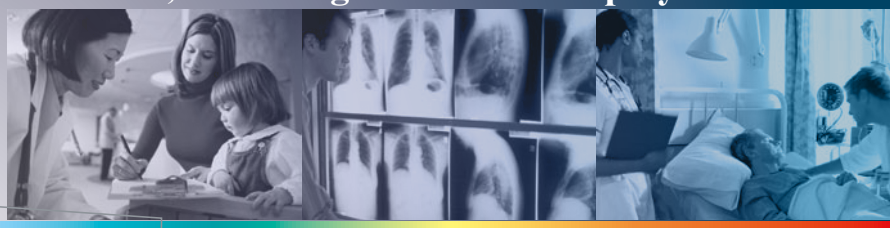
PACSmate™

MMD-4300C

30”, 4MP diagnostic color display



Single 4MP viewing mode & Dual 2MP viewing mode Available

4MP 30-bit

- 30” color TFT LCD
- 4MP-2560(H) x 1600(V)
- Max. luminance: 370cd/m²

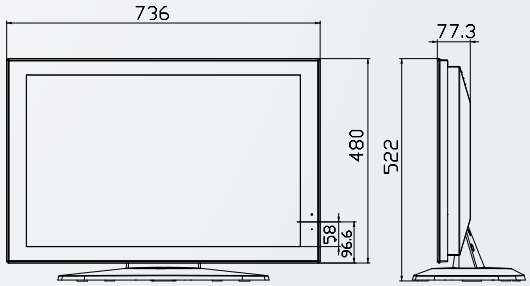
  Max. calibrated luminance: 250cd/m²
- Built-in front sensor for calibration and auto-dimming function
- Selectable Gamma 1.8,2.0,2.2 Calibration
- Single 4MP and dual 2MP viewing setups
- Intelligent display mode auto adjustment with graphic card auto detection
- Ready for Deep color and HDMI™ 1.3 with GrayEasy® technology and 30-bit color dithering
- Intelligent color-to-gray conversion for grayscale applications
- IPXX / IPX2 compliance

100% Compatible With VESA DDC/CI Protocol

MMD-4300C is implemented with the VESA DDC/CI protocol and the standard VESA Monitor Control Command Set (MCCS), the universal communication interface, enabling remote control management through network. MMD-4300C allows easier two-way communications with the host PC through only DVI cable, instead of additional serial or USB cables. Through DDC/CI protocol, the software OSD manages the MMD-4300C remotely. IEI also provides software OSD customization services with command library and customer defined MSSC command programming.

Various software OSD functions:

- Power on/off
- Display mode selection: 4MP/2MP, color/monochrome
- Gamma and color temperature selection
- Luminance selection
- DICOM/ Gamma Look-Up-Table selection
- Monitor information



Multiple Viewing Modes & Color to Grayscale Technology

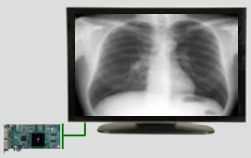
Single Viewing Mode

In single viewing mode, the MMD-4300C is displayed as a single 4MP monitor, either in color or in grayscale mode.

Single 4MP in color mode

Dual-link DVI-D
2560 x 1600

Single 4MP in grayscale mode



Dual-link DVI-D
2560 x 1600

Dual Viewing Mode

In dual viewing mode, MMD-4300C is configured to display as seamless dual 2MP monitor by two DVI signal inputs. With color to grayscale technology, MMD-4300C can viewed by multiple modes without change to your PACS configuration.The independent Look-Up-Table for DICOM and Gamma calibration ensures the best display quality for diagnostic applications.

Dual portrait 2MP color mode

Dual-link DVI-D
1280 x 1600

Single-link DVI-D
1280 x 1600

Dual portrait 2MP grayscale mode

Dual-link DVI-D
1280 x 1600

Single-link DVI-D
1280 x 1600

Dual portrait 2MP grayscale/color mode

Dual-link DVI-D
1280 x 1600

Single-link DVI-D
1280 x 1600

Dual portrait 2MP color/grayscale mode

Dual-link DVI-D
1280 x 1600

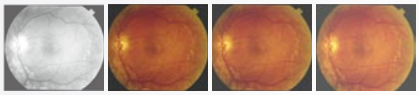
Single-link DVI-D
1280 x 1600

GrayEasy® 30-bit Deep Color

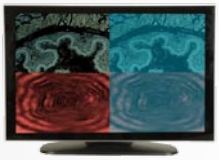
30-bit color image (10-bit for each RGB element) can be displayed on PACSmate™ monitors without any image loss. Through IEI’s unique GrayEasy® technology, there’s no need to replace the monitors for future HDMI 1.3 supported deep color display capabilities.

User Selectable Gamma Settings and Color Temperature Settings

IEI provides you with flexible Gamma settings and color temperature settings for side-by-side image comparison in dual-viewing modes. The independent Gamma settings (for Gamma 1.8,2.0,2.2) and color temperature settings (6500ºK, 9300ºK) consist of multiple user-selectable settings, providing flexible display modes for images from different modalities.



DICOM Gamma 2.2 Gamma 2.0 Gamma 1.8



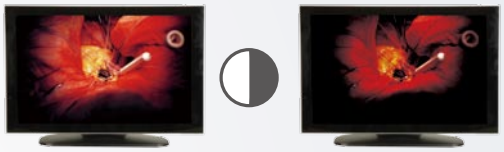
Color Temperature Settings

IPX2 Compliance

The whole enclosure of MMD-4300C is compliant with IPX2 waterproof standard.The MMD-4300C can be used in the operating room where is humid and waterproof is considered important.

Auto-Dimming for Ambient Light Adjustment

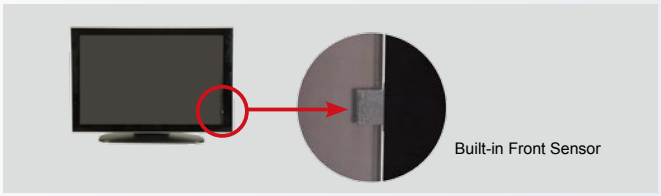
The auto-dimming function helps create better diagnostic experience under proper light condition and extend backlight lifetime



Well-Lit Room Dim-Lit Room

Built-in Front Sensor for DICOM Conformance Testing

IEI has designed a built-in, front-mounted sensor which continually adjusts the luminance output to ensure consistent images over time.



Built-in Front Sensor

Graphic Card Compatibility

nVIDIA QUADRO FX560/FX1500
nVidia GeForce 8600GT

ATI V7100/V3400

Packing List

PACSmate™ Series medical LCD monitor
Monitor stand
Power Cord (US x 1, EU x 1)
Power Adapter
Dual-link DVI-D Signal Cable
USB Cable
Utility CD-ROM (for user's manual and software utility)

Ordering information

Part No.	Description
MMD-4300C 4MP	4 megapixel, 30" color LCD monitor with IPX2 housing
MMD-4300Cx 4MP	4 megapixel, 30" color LCD monitor with IPXX housing

Specifications

PACSmate®	MMD-4300C
Drive System	a-Si TFT active matrix
Display area (H x V)	641.3mm x 400.8 mm
Diagonal size of display	75.6cm (30.0 inches)
Resolution (H x V)	2560 x 1600
Pixel pitch (H x V)	0.2505mm x 0.2505 mm
Sub-pixel pitch (H x V)	0.0835mm x 0.2505 mm
Pixel format	RGB (Red dot, Green dot, Blue dot) vertical stripe
Luminace-max.	370cd/m^2
Max. Luminance (calibrated)	250cd/m^2
Contrast ratio	1000:1 (typical)
Viewing angle	Right: 178°, Left: 178°, Up: 178° , Down: 178°
Response time (Ton + Toff)	12ms (typical)
Polarizer surface/ hardness	Antiglare/ 3H
Backlight	16 CCFL
Default gamma	Gamma 2.2
LUT	10-bit for each RGB
Signal input	Dual link DVI-D (digital)
USB 2.0 hub	1 upstream/ 2 downstream
Membrane keypad	Yes
Power adapter Input voltage range	100VAC-240VAC
Power adapter Input frequency range	47Hz-63Hz
Power adapter Input AC current	2.0A max. at 90VAC
Power adapter Power output	24VDC, 6.25A, 150W (max)
Physical dimensions (H x W x D)	With stand: 522mmx 736mm x 266 mm (landscape) Without stand: 480mm x 736mm x 76 mm (landscape)
Operating temperature	10°C~35°C
Storage temperature	0°C~45°C
Operation relative humidity	30% ~75% Non-condensing
Storage/ Transportation Relative humidity	10% ~95% Non-condensing

Headquarters
IEI Technology Corp.
TEL : +886-2-86916798 FAX : +886-2-66160028
sales@pacsmate.com www.pacsmate.com
No. 29, Jhongsing Rd.,Sijhih City,Taipei County, 221, Taiwan

America-United States
IEI Technology USA Corp.
TEL : +1-909-595-2819 Fax: +1-909-595-2816
sales@pacsmate.com www.pacsmate.com
168 University Parkway, Pomona, CA 91768

China
IEI Technology (Shanghai) Co.,Ltd,
TEL : +86-21-3462-7799 FAX : +86-21-3462-7798,3462-7797
sales@pacsmate.com www.pacsmate.com
3F No. 1728 Yi-Shan Road, Min-Hang, ShangHai, China